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Fisheries Research Bulletin No. 16

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A Bibliography of the Literature about New Zealand's Marine and Freshwater Commercial Fisheries 1840–1975

by
L. J. Paul

Fisheries Research Division
New Zealand Ministry of Agriculture and Fisheries

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Frontispiece: A motorised skiff (right) steadies the net as a 3-tonne load of skipjack tuna is brailed aboard a purse seiner. American-owned, New Zealand-registered vessels, in addition to wholly New Zealand boats, began catching this migratory pelagic species off the New Zealand coast in the mid 1970s.

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Fisheries Research Division,
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Wellington, New Zealand

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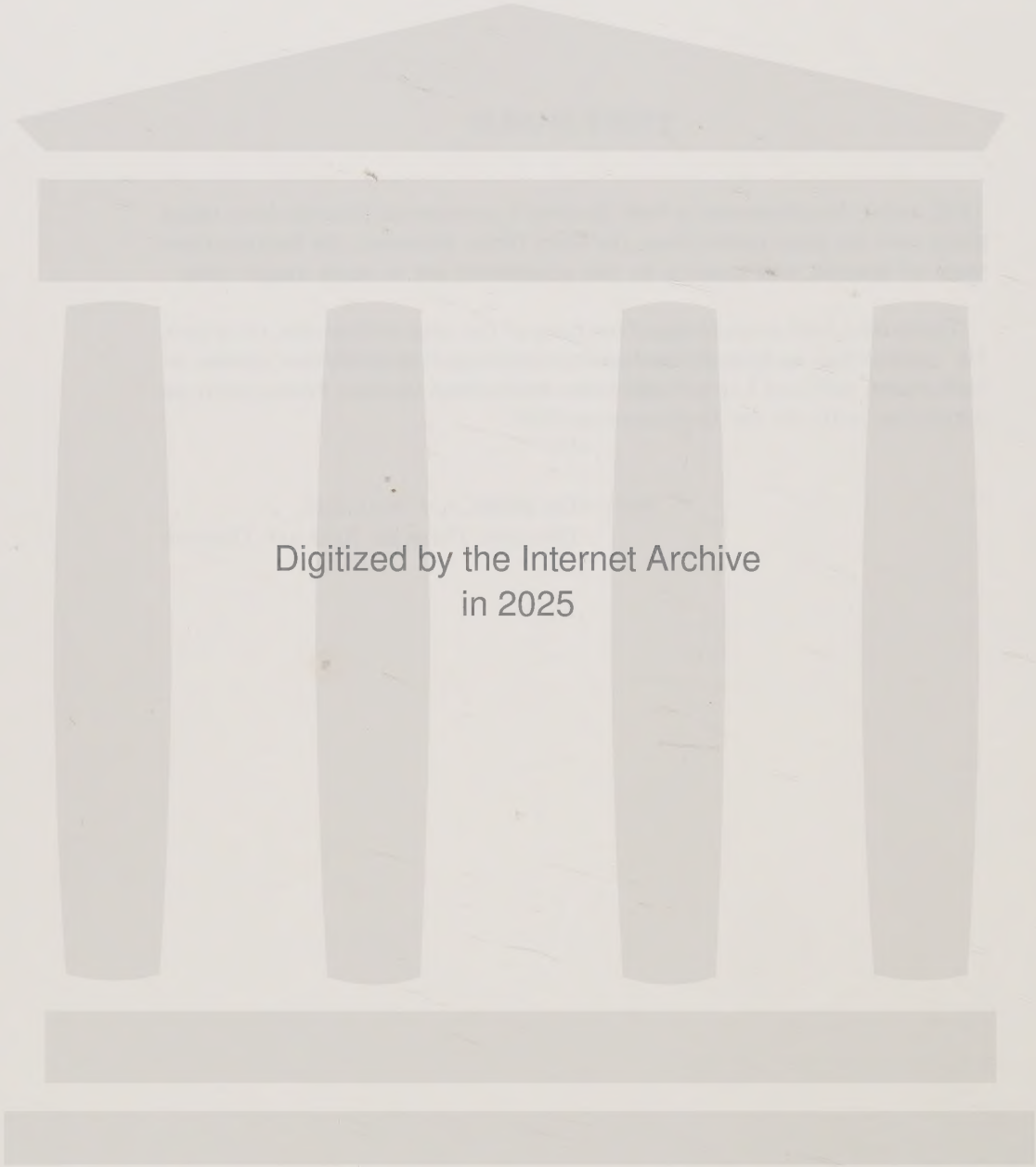
FOREWORD

THE major developments in New Zealand's commercial fisheries have taken place over the short period since the early 1960s. However, the fisheries have been of interest and concern to the community for a much longer time.

Those who wish to understand the basis of the present fisheries, or to look for appropriate early and more recent references to particular species or techniques, will find Larry Paul's wide-ranging and detailed bibliography an invaluable entry to the literature.

G. DUNCAN WAUGH,
Director, Fisheries Research Division



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INTRODUCTION

THE need for a comprehensive bibliography on New Zealand's commercial fisheries has been increasingly felt during the 1970s. Three developments, in particular, have produced a need for easy access to the existing information.

Firstly, though foreign exploitation of New Zealand coastal waters (which was started about 1960 by Japanese snapper long-line vessels) declined in the late 1960s when a 12-nautical-mile fishing zone was claimed, Japanese tuna long-liners continued to work in off-shore waters. Subsequently, other large fishing vessels began arriving to fish in coastal waters just outside the 12-mile zone: Japanese and Russian trawlers, Japanese squid-fishing vessels, and in 1975 New Zealand-registered, but American-owned, skipjack purse seiners. Foreign fishing vessels called frequently into New Zealand ports. This partly reflected continued exploration of the world's fishing grounds, but also resulted from the need of these larger fishing nations to establish a presence and claim traditional fishing rights on as many grounds as possible before the declaration of 200-mile fishing zones. This visible activity prompted a considerable expansion in the New Zealand fishing industry, stimulated by the apparent discovery of rich off-shore resources, as well as a widespread public concern that these resources be properly managed and exploited by New Zealanders.

Secondly, during the 1970s several of New Zealand's in-shore fisheries began showing signs of overexploitation, and some were placed under closer government control through licence limitation or catch quota. The debate intensified between those who regard aquatic animals as a common property resource, with any person having a right to take them, and those who consider it more appropriate to manage these resources to maximise yields (or some other measurable value).

Thirdly, aquaculture of rock oysters and green mussels, which began experimentally in the mid 1960s, became a commercial reality in the early 1970s. The ability to farm aquatic animals, as opposed to simply hunting or gathering them, is a significant achievement.

These three developments make the 1970s a significant decade in New Zealand fisheries. No single year can be regarded as a turning point and so for practical reasons 1975 has been chosen as the end date for this bibliography.

Apart from short lists of Ministry of Agriculture and Fisheries (formerly Marine Department) publications, this is the first bibliography of New Zealand fisheries literature since Hamilton (1902)*. Perhaps the increasing tempo of fisheries research and development will stimulate the production of subsequent bibliographies at more frequent intervals.

Papers and articles on the New Zealand fishing industry are scattered through many different publications. This bibliography is a guide to the available information on New Zealand's fisheries for fish (marine and freshwater), crustaceans, molluscs, and seaweeds and on the food-processing industry which depends on them.

Papers are included if they mention at least one aspect of the fishing industry or its management, or fisheries research, or if they deal with the biology of a commercially important species. Biological papers on fish or shellfish not supporting a commercial fishery are not included. Papers on the management of introduced freshwater fishes are not included.

The earliest item listed here is dated 1840 (No. 277). Earlier papers or notes may exist, but no references to any were found during the compilation of this bibliography. (General, usually brief, references to the "great potential of the fisheries of this colony" in the writings of early explorers and settlers have not been included.

Papers on marine fish have been grouped by subject, and those on freshwater fish, molluscs, and crustaceans have been grouped by species.

Several papers, indicated with an asterisk, have not been formally published, and only a few copies exist.

Much additional information is contained in the annual *Reports on Fisheries*, issued by the Marine

*HAMILTON, A. 1902: List of papers on New Zealand fishes and fishing. *Transactions and Proceedings of the N.Z. Institute 34*: 539–48.

Department from 1902 to 1972 and from 1973 onwards by the Ministry of Agriculture and Fisheries, and in the annual *Reports of the Fishing Industry Board* from 1965 onwards. Three magazines or newsletters are concerned specifically with the New Zealand fishing industry: *Commercial Fishing* (Trade Publications Ltd., Auckland), *Fishing Industry Board Bulletin* (Fishing Industry Board, Wellington), and *Fisheries Newsletter*, subsequently *Catch* (Ministry of Agriculture and Fisheries, Wellington). Signed articles and some anonymous reports in these magazines are included in this bibliography, but some news items of value to specific inquiries have, of necessity (there are several hundreds), been omitted.

There is also much information on New Zealand's fisheries in the published Parliamentary debates (*Hansard*), accessible through the annual indexes, but this has not been incorporated here. Reports printed as appendices to the Journals of the House of Representatives are, however, included.

I thank all who brought fisheries references to my attention. I cannot claim that this bibliography is complete or free from errors; undoubtedly some references have escaped my notice.

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*See Introduction.

[By courtesy of Mrs M. Spiers.

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[Spencer Digby photograph.

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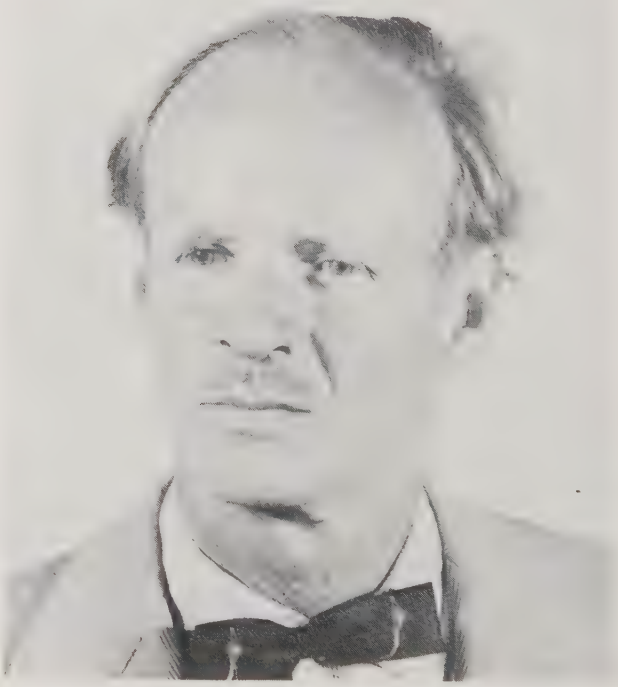

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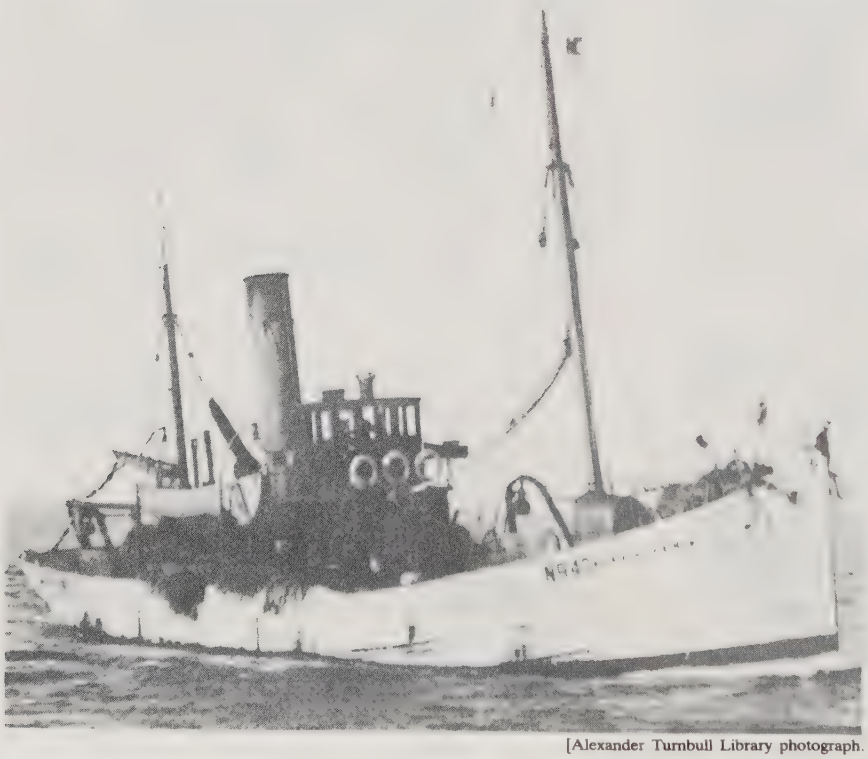
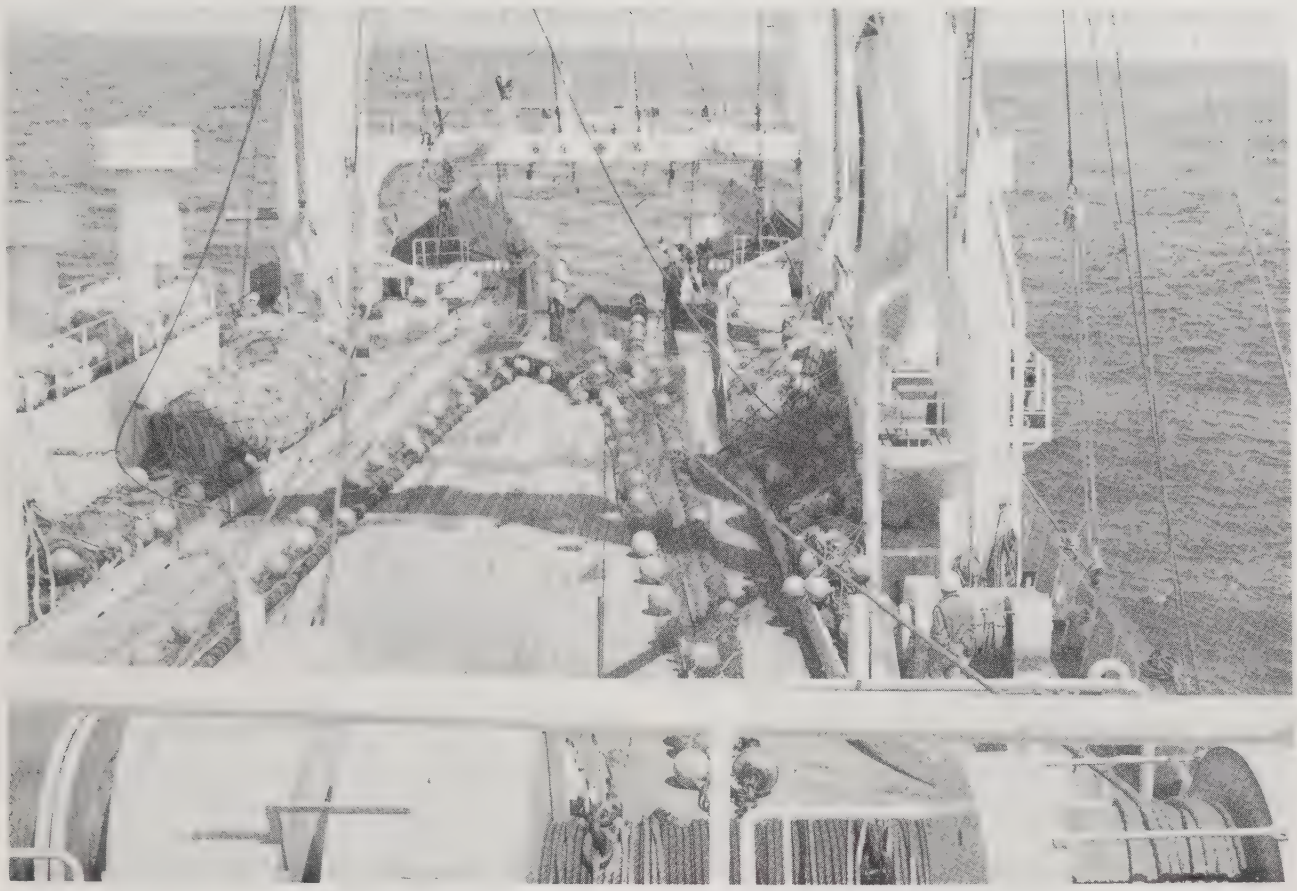


The side trawler *Nora Niven*, chartered by the New Zealand Government for exploratory surveys of coastal fishing grounds in 1907.

[Alexander Turnbull Library photograph.



Shinkai Maru, a 3400-tonne Japanese stern trawler, which began a survey of New Zealand's off-shore fishing grounds in 1975.

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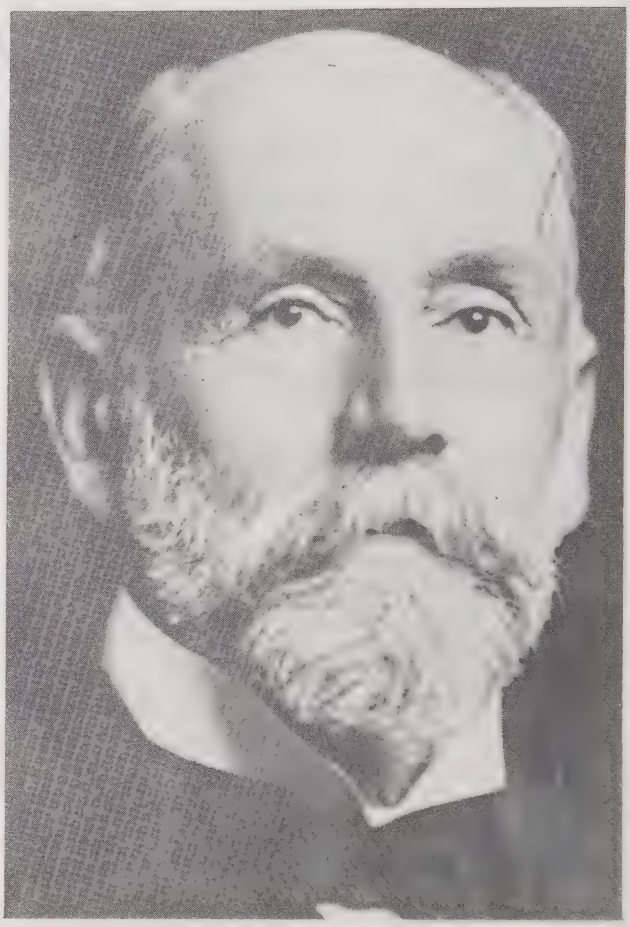

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[National Publicity Studios photograph.

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[Photograph from Paul Collection, Alexander Turnbull Library.

A Wellington fish market in the early 1900s. Most fish visible are hapuku, headed and gutted.

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